



(12) UK Patent (19) GB (11) 2 379 464 (13) B

(45) Date of publication: 23.07.2003

(54) Title of the invention: Timber block to form load bearing wall

(51) Int Cl⁷: E04B 2/70, E04C 2/12

(21) Application No: 0220815.5

(22) Date of Filing: 09.09.2002

(30) Priority Data:
(31) 0121917 (32) 11.09.2001 (33) GB

(43) Date A Publication: 12.03.2003

(52) UK CL (Edition V):
E1D DCF D1079 D193 D2145 D404 D501

(56) Documents Cited:
WO 2001/077453 A WO 2001/059228 A
DE 029614258 U US 2787812 A

(58) Field of Search:
As for published application 2379464 A viz:
UK CL (Edition T) E1D DCA DCF DCH
INT CL⁷ E04B, E04C
Other: ON - LINE : EPODOC, PAJ,WPI
updated as appropriate

(72) Inventor(s):
Kevin McInerney
Paul Miarowski

(73) Proprietor(s):
Kevin McInerney
13 Hazewood Close, Off Nunnery Lane,
WORCESTER, WR5 1RH, United Kingdom

Paul Miarowski
3 Jacomb Close, Lower Broadheath,
WORCESTER, WR2 6SQ, United Kingdom

(74) Agent and/or Address for Service:
Kevin McInerney
13 Hazewood Close, Off Nunnery Lane,
WORCESTER, WR5 1RH, United Kingdom

FIG 2

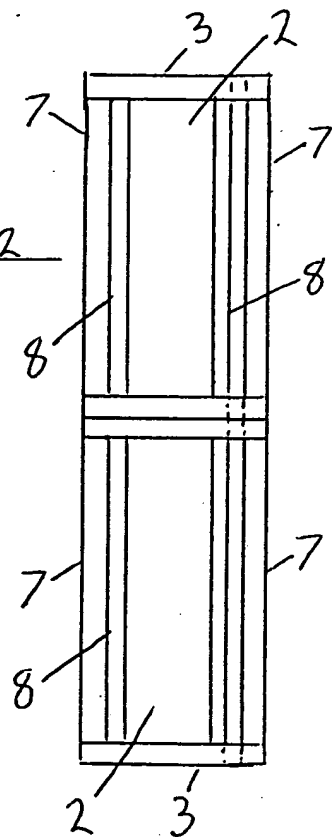
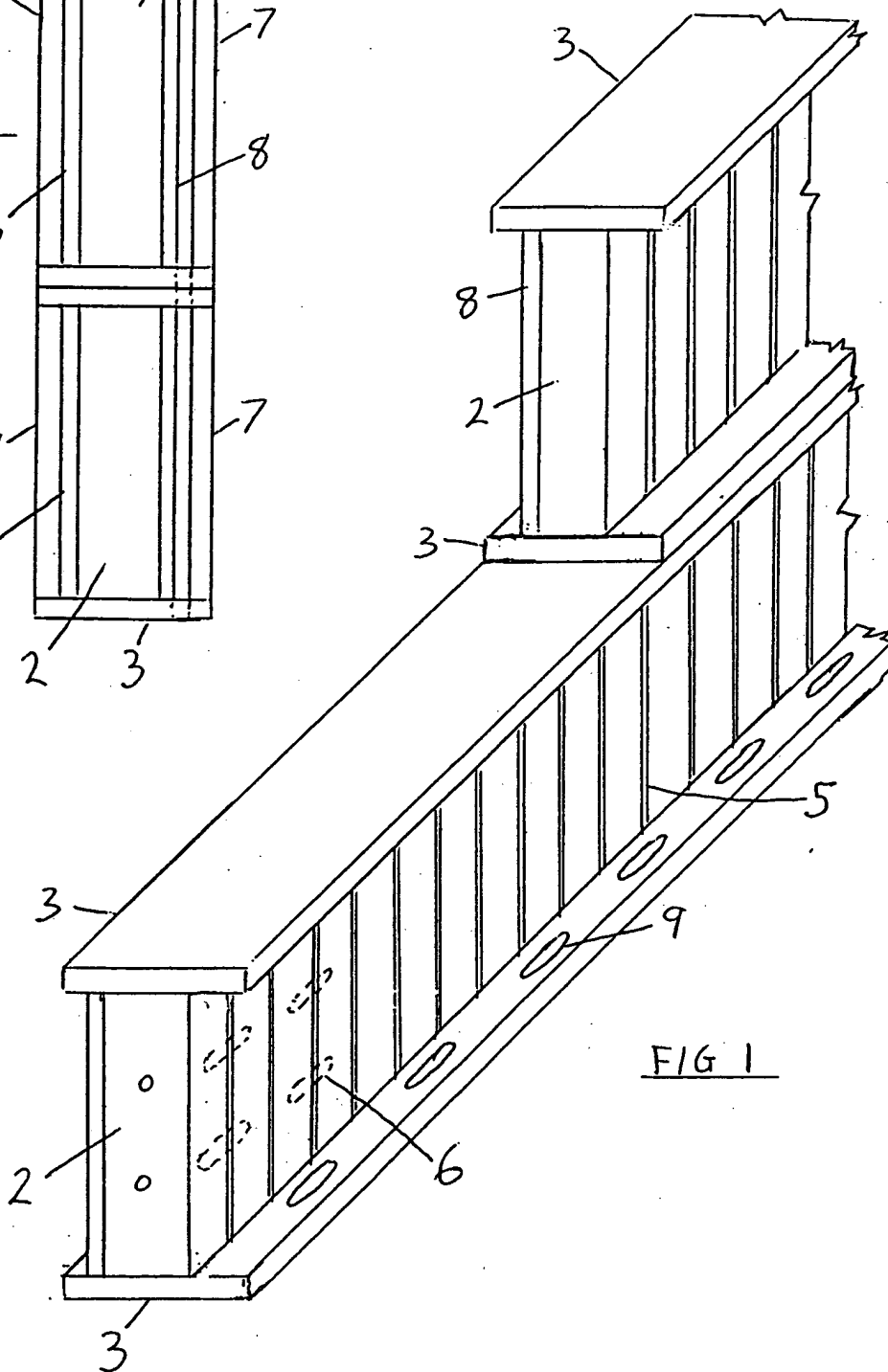


FIG 1



TIMBER BLOCK TO FORM LOAD BEARING WALL

This invention relates to a timber load-bearing block. The timber block is adapted to be stacked with like blocks in a conventional manner. The block is generally bonded and fixed to like blocks to form for example, a load bearing internal skin of an external wall.

The conventional manner for using blocks to form load bearing walls, such as in dwellings, use insulation and concrete blocks.

Insulation and concrete blocks are structural and are easy to lay, and are compatible to a brick module. They also have good sound abating properties. However, they may only be bonded together by cement mortar limited to a favourable environment. There are no built in areas for internal services and insulation. Attention also needs to be given to the maximum lift permitted at one time to avoid block work 'slumping' before curing. This is not conducive to a fast track build.

It is therefore an object of the present invention to provide a load-bearing block to attain the positive characteristics of insulation and concrete blocks and overcome or minimise the problems.

According to one aspect of the present invention there is provided a load-bearing timber block comprising:
a plurality of mutually adjacent parallel, in use vertically oriented, timber components. The components have a measured space between adjacent components, it is desirable for the space to be clear, but may need to be filled with a suitable expansion/insulation material to meet building regulations, the measurement of the space being restricted to the limits allowed for the blocks structural integrity. The components are reinforced/bridged by suitable means, such as a rigid structural sheet material fixed/bonded along one/both sides of the components and/or with dowels which may be loosely positioned into adjacent components in the longitudinal direction of the block, and/or with rigid structural sheet material upper/lower binder members, fixed/bonded to one/both of the in use upper/lower ends of the components. The upper/lower binder members extend horizontally beyond one/both sides of the said components in a direction perpendicular to the plane of the wall, creating a built in area for internal services and internal/exterior insulation. The upper and lower binder members may provide a number of elongated slots in their internal, in use, regions for the passage of services.

CLAIMS

1. A timber block, adapted in use to stack with like blocks to form a load-bearing wall, the block comprising a plurality of mutually adjacent parallel timber components.
2. Timber block to form load-bearing wall as claimed in claim 1, characterised in that the components are, in use vertically oriented.
3. Timber block to form load-bearing wall as claimed in claim 1 or 2, characterised in that there is a measured expansion space between adjacent components.
4. Timber block to form load-bearing wall as claimed in claim 1-2 & 3 characterised in that the components are bridged/reinforced by suitable means such as a rigid structural sheet material fixed/bonded to one/both of the in use upper/ lower ends of the components or dowels which may be loosely positioned into adjacent components in the longitudinal direction of the block, or a combination of both.
5. Timber block to form load-bearing wall as claimed in claim 1, 2, 3 or 4, characterised in that the components are bonded between in use upper and lower binder members.
6. Building block to form load-bearing wall as claimed in claim 5, characterised in that the in use upper and lower binder extend horizontally beyond both sides of the components.
7. Building block to form load bearing wall as claimed in claim 6, characterised in that the in use upper and lower binder members are provided with a number of apertures spaced along their internal, in use, regions.
8. Building block to form load-bearing wall as claimed in claim 7, characterised in that the apertures are in the form of elongated slots.
9. Building block to form load-bearing wall as claimed in claim 4-5-6-7 & 8 characterised by the step of positioning and fixing a number of sheet materials against one/both sides of the components.
10. Building block to form load-bearing wall as claimed in claim 9, characterised in that the sheet material provides insulation and /or reinforcement.